5

10

30

CLAIMS

What is claimed is:

- A composite comprising:
 - (a) a first layer of a fabric containing high strength fibers bonded with a resin wherein the first layer will deflect in a range from 5.0 to 17.5 centimeters employing a 33 kilogram (15 pound) projectile at a speed of 161 kilometers (100 miles) per hour in accordance with ASTM test procedure E1886-97 mounted on one layer of ¾ inch plywood with #10d nails on a frame in accordance with FEMA Publication 320, Revision 1 specific to Drawings AG-5 and 14, and
 - (b) a second layer of structural sheathing.
- 2. The composite of claim 1 wherein the deflection is in a range from 8.0 to 16.0 centimeters.
 - 3. The composite of claim 1 wherein the high strength fibers are selected from the group consisting of aramid fibers, glass fibers, polyethylene fibers, polyvinyl alcohol fibers, polyarylate fibers, polybenzazole fibers, or carbon fibers.
- The composite of claim 1 wherein the high strength fibers comprise an aramid.
 - The composite of claim 1 wherein the high strength fibers are glass.
- 6. The composite of claim 1 wherein the second layer is at a 25 thickness of at least 0.65 centimeters (one quarter inch).
 - The composite of claim 1 wherein the second layer comprises plywood.
 - 8. A building structure having an integral portion of the structure comprising a composite comprising:
 - (a) a first layer of a fabric containing high strength fibers bonded with a resin wherein the first layer will deflect in a range from 5.0 to 17.5 centimeters employing a 33 kilogram (15 pound)

5

15

20

projectile at a speed of 100 kilometers (100 miles) per hour in accordance with test procedure E1886-97 mounted on one layer of % inch plywood with #10d nails on a frame in accordance with FEMA Publication 320, Revision 1 specific to Drawings AG-5 and 14, and

(b) a second layer of a structural sheathing.

wherein the first layer faces an interior portion of the structure and the second layer faces or comprises an outer layer of the structure.

- 9. The building structure of claim 8 wherein the integral portion comprises a wall.
 - 10. The building structure of claim 8 wherein the integral portion comprises a ceiling.
 - 11. The building structure of claim 8 comprising the second layer of structural sheathing at a thickness of at least 0.65 centimeters (one quarter inch).
 - 12. The building structure of claim 8 wherein the deflection is in a range from 8.0 to 16.0 centimeters.
 - 13. The building structure of claim 8 wherein the high strength fibers are selected from the group consisting of aramid fibers, glass fibers, polyethylene fibers, polyvinyl alcohol fibers, polyarylate fibers, polybenzazole fibers, or carbon fibers.
 - 14. The building structure of claim 8 wherein the high strength fibers comprise an aramid.
- 15. The building structure of claim 8 wherein the high strength fibers are glass.
 - 16. The building structure of claim 8 wherein the second layer is at a thickness of at least 1.27 centimeters (one half inch).
 - 17. The building structure of claim 8 wherein the second layer comprises plywood.